

SOUTH BAY TRS-80® USERS GROUP

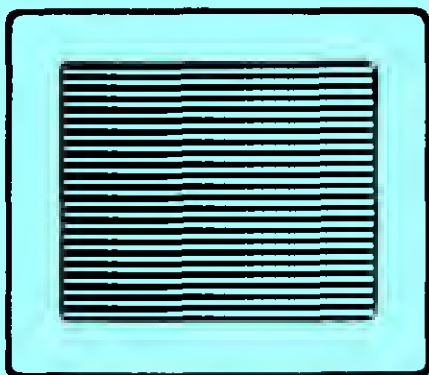


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DYNAMIC MEMORIES™

* Tandy Corp. / Radio Shack Inc.

JUNE



D Y N A M I C

M E M O R I E S



SPACE BAR

SOUTH BAY TRS-80 USERS GROUP

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SBUG meetings are held the 3rd Tuesday of each month in the north-east corner of Dyan's building at:

5401 Patrick Henry Drive

Time—7:15 to 10:30 P.M. Santa Clara, Ca.

June 19, July 17, August 21

Topic of the month: C —Instruction leaders: Eric Brewer, Casey Parker, Glenn Vaughn. (7:30—8:00)

General Forum: Topic—Database managers (noo humaooid)
8:00 to finale

MEMBERSHIP

If you wish to become a member of SBUG and start receiving our newsletter "Dynamic Memories" then send \$18.00 (check/moneyorder) to the following address:

South Bay TRS-80 Users Group
P.O.Box 60116
Sunnyvale, Ca. 94088

or come to one of our meetings. If you also wish to communicate with our bulletin board system (SBUG-80) then include an additional \$25.00 for an account on the system. You must be a member of SBUG to have an account on SBUG-80. Please include your address and phone number. Thanks...

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JUNE 1984

YOUR STEERING COMMITTEE

	Member	SBUG-80 Username	Phone
Discussion Leaders:			
	Sabri Kawssh	(SABRI)	
	Eric Brewer	(BREWER)	(408) 252-9332
	Casey Parker	(CASEY)	(415) 793-2/15
Treasurer:			
	Glenn Vsughn	(TREAS)	(408) 262-3608
Newsletter Editor:			
	Joel Lee	(EDITOR)	(408) 926-3999
Assistant Editor:			
	Chuck Werd	(CHUCK)	(408) 245-7688
Librarians:			
	(disc) Bernie Thompson	(BERNIE)	(408) 861-7455
	(tape) Gary Dixon	(GDIXON)	(408) 262-6937
	(doc) Pete Fratus	(FRATUS)	(408) 258-8389
SBUG-80 Sysop:			
	Robert Byrd	(SYSOP)	(408) 732-6775

OTHER KEY INDIVIDUALS

Cover Artist:			
	Chuck Werd	(CHUCK)	(408) 374-5258
Public Relations:			
	Ron Carpenter	(RON)	(415) 726-3487
Host Computer:			
	SBUG-80	(EVERYONE)	(408) 737-SBUG

If the need arises, feel free to give any one of us a call.

THE EDITOR'S BYTES & BITS

I am marketing a program. It is written simultaneously in C, Pascal, Forth and Tiny Basic. The operating systems are MS-DOS, C/PM and TRSDOS 2.7. All on the same disc. No backup disc will be supplied. No support will be given, because I'm going bankrupt (Chapter 11, which permits me to stay in business) as soon as I get your money. The documentation is written in Swahili with an appended translation in Quechua.

The rockbottom, cut rate, mail order price is \$185. That's way down from the original price of \$430. What is my program about, and what does it do? You'll find that out (if you're lucky) when you get the program. I can tell you that it has been used successfully to keep track of hoof and mouth disease amongst Tibetan yaks. There was a problem with non-Tibetan yaks, which I promise to take care of in an updated edition, sometime before 1990. You will find a glowing recommendation of my program in the April edition of COMPUTER STUPID QUARTERLY. It was written by my brother in law, who is also the editor and owns 50% of the program.

Review by Pete Frstus

Disk Index by Mumford Micro System

Disk Index is a program which records the diskette and file names from a library into a file. When looking for a program or data file, using a disk index can provide significant help.

I checked this program out from our software library. The most surprising thing about Disk Index is how good it is. I'm haven't always been impressed with software that I see. It was refreshing to find a program that did not bomb, was easy to use, and did what the advertising said it would do.

The first thing to do when indexing diskettes is to name or number them. I only have about 80 diskettes in my working library so this wasn't too much of a task. Since INDEX/CMD and the index file only take up 34 bytes, they can be kept on your most used diskette or set up separately on a system diskette of their own as I chose to do. Now the process of indexing begins. Run the program, and begin building an index by choosing from the menu. Answer <1> for the disk drive number and place your first diskette in that drive. Type in a name of your choice for the diskette and hit <ENTER>. Repeat these steps for all of your diskettes.

I started out indexing about 20 diskettes then went thru the 'finding' and 'listing' of disks and programs. Then I started all over again and did all of my TRSDOS, NEWDOS, LDOS, Model I, and TRSDOS 6 diskettes in one swoop. Total time including the playing around was about 2 hours. Once I got used to how easy the program was to use, I went faster and faster and was eventually using both drives alternately to read the directories into the index.

The program has the capability to: FIND a program, file or disk by name; LIST all entries by disk or file name; ADD or DELETE entries manually; include or exclude invisible file names; print the list on the printer; and read or write more than just one index. There are several controls for making it work right with your printer.

Once the index is complete, you can WRITE it to disk. It gets sorted on the way. Sorting takes about 15 seconds for 1200 names. Finding names in the index takes about 3 seconds.

I called Mumford to ask if the advertised Model 4 version really ran in 4 mode; it did. I ordered it.

Pickup Disk Index from the software library for a \$2 fee and a \$40 deposit. See what it can do for you.

<-----LNW USERS----->

My inquiries have apprised me that I am not the only LNW user in SBUG. To date, however, we have not been able to get together. Let's all make our best effort to attend the June meeting. We can then get together as a SIG between

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oine & teo in the 3rd row from the rear of the auditorium. I am George Olson and you will know me because I will look like the Maytag repair man—lovely. This can end if we can all get together for support and exchange of informatioo. I have had some success recently in converting COCO graphics to LNW BASIC.

I suggest that you read the very interesting and laudatory article about the LNW in the May BYTE. See you at the meeting.

George Olaso.

SALE OUTSIDE THE BIGTOP

For those poverty ridden souls whose miserable atipeod leaves them unable to purchase the diakettes that nature has entitled them to, diakettes will be oo sale in the parking lot before and after every meeting. Brand new Dysao diskettea (in Victor aleevea) will go for \$15 for a box of ten. Once used diskettea with a program on them will go for \$1 each. You may also call me at my office, Bernie Thompson, (408) 867-7455

FOUR FOR THREE ON BASF 6106

Mr. Terry Kepner
Feedback Loop
80 Micro
80 Pioe St.
Peterborough, N.H. 03458

March 19, 1974

Dear Mr. Kepner:

Your excellent article in 80Micro Jaouary 84 concerning the ability to use the BASF 6106 aigle aided drivea was very good and to the point. (80MICRO page 28 January 1984) It gave the summary that many needed to use the drives when the aupplier went out of the drive business.

There ia however ooe additional aervice that you can do for your readers - tell them how to allow the three addreeses be used as four.

Many of the computera today can addressa four drives yet the BASF 6106 drives can address only three. The trick is to make one of the drives think that it ia a drive 0 but address it as though it were a drive 3.

This can be accomplished quite easily by novice personnel by merely soldering a jumper from the trace at pio 32 to any back pin of J1. That ia to say, using the belt drive motor as a reference, umber the little solder dota that

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are closest to the edge connector 1, 2, etc. Solder #2 dot to JJ1 back row (the row of three nearest to the front of the drive). With these connections, the drive will now 'think' that it is a '0' drive but will be getting its signal from drive '3' input signal (side select on the RS TRS-80 connector scheme).

Remove the jumper from JJ1 as it no longer carries any signal that you want.

One problem remains. The drive is getting a 'side select' signal, and even though the 6106 does not have another head present, the electronics are there and this jumper wire described here will activate the unwanted circuitry. Out of spot '2' above comes the side select circuitry trace. Cut it. Now you have a single-sided double or single density drive at a very attractive price and very little effort. You also have added the required fourth drive to your system with no additional cost.

If you have any problems, drop me a note and I'll be glad to attempt to help out.

JIRO ENTERPRISES
3380 Cork Oak Way
Palo Alto, CA. 94303

THE RESURRECTION OF OMIKRON!!!???

In hand a flyer from Omikron offering all their software at the bargain price of \$39 each. I hasten to assure the justifiably cynical. They may be ordered COD. The tone of the missive is somewhat plaintive, something like a lady betrayed by her lover. In this case it seems that the lady had done a little catting around herself. I will have the flyer at the meeting for any who wish to see it.

FOR SALE

Also in hand from Chester A. Reynolda, 475 Bartlett St., San Francisco, 94110, an offer to sell for "any offer that is reasonable":

- (1) Basic TRS-80 Level I Model II Computer
- (2) Expansion Interface
- (3) RS-232-C Board
- (4) Radio Shack Modem I
- (5) Assorted cables, cassette player, and reference manuals.

(Editor's note: What is reasonable?)
EDITOR

I have on order the VS-100 voice synthesizer. At the July meeting I will be prepared to astonish and delight you with my new acquisition. Something like that.—EDITOR

OH, SAY CAN YOU C?

SIMPLE "C" PROGRAM TO SET UP PRINTER MODES

by Vigo Smith

For those of you who have been wondering what the "C" language is all about, here is an example of an early effort by a rank amateur. When I first began looking at "C", I thought, "Gee, this looks like just a hard way of doing assembly code!" Now I am beginning to see that "C" programming has some advantages over programming directly in assembly language. The "C" language is very terse and allows one to put a lot of action into a relatively few lines. The final assembly code, of course, is considerably less efficient when produced from "C" than when written directly for a particular purpose. However, "C" does seem to have less "overhead" than FORTRAN and produces more efficient code.

SCRIPSI^T may be used to write and edit "C" programs. Just remember to use the S,A command to save the text in ASCII. You can even make the curly brackets ($\{, \}$) and square brackets ([,]), as well as backslashes (\backslash), etc. by using the tricks given by Gregory Springer in 80-MICRO for April, 1984, page 118.

The "C" program listed below can be used to send control codes to a printer to set up any desired printer mode. The following steps will produce PR/CMD, the machine code required to use the program:

1. Run "C" compiler with the command:
"C PR/C:1 O=PR/MAC:1"
2. Run M80 with the command "M80 PR:1=PR:1" to produce PR/REL:1.
3. Run L80 with the command:
"L80 PR:1,NEW80,CLIB-S,PR:1-N-E:CCMAIN".

/* PR/C: This program sends control codes to the printer to set up special printer modes. From DOS enter "PR 1" to turn on compressed characters on the Epson. Enter "PR 2" to turn them off. "PR E'char'" sets the corresponding "escape" "char" code on any printer. For example, "PR E4" turns on italics on the Epson. An illegal code sounds the buzzer. */

```
#include <stdio.h>
FILE *fp;
main(argc,argv)
    int argc,argv[];
```

```
{
/* Check whether command line has parameters and buzz
printer if not. */
```

```

char es, nu;
if(argc==1)
    sound(ea);
else
/* Otherwise get first character of parameter. */
{
    nu=fetch(argv[1],0);
    putchar(nu);
    if(nu=='E')
    {
/* If it is "E", then get next character and send escape
(1BH or 33 octal) followed by the second character. */
        es='±33';
        nu=fetch(argv[1],1);
        putchar(nu);
        goprta(es,nu);
    }
    else
    {
/* If not "E", then select compressed on or off for
Epson printer. */
        nsta(nu);
    }
}

/* Function to fetch a character from the command line. */

fetch(cb,n)
char *ch;
int n;
return ch[n];

/* Function to sound buzzer on printer. */

sound(a)
char a;
{
    a='±07';
    goprta(a);
    return;
}

/* Function to send two characters to the printer. */

goprta(a,b)
char a,b;
{
    fp=fopen("PK","w");
    putc(a,fp);
    putc(b,fp);
    return;
}

/* Function to send one character to the printer. */

```


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```

goprtd(a)
  char a;
  ↑
  fp=fopen("PR", "w");
  putc(a, fp);
  return;
  ↓

```

/* Function to select compressed on or off when no escape character is sent. */

```

nxta(a)
  char a;
  ↑
  if(a=='1')
  ↑
    a='t1/';
    goprtd(a);
    return;
  ↓
  if(a=='2')
  ↑
    a='t222';
    goprtd(a);
    return;
  ↓
  else
  /* If parameter is not "1" or "2", buzz the printer. */
    sound(a);
    return;
  ↓

```

Message from GLENN at SBUG-80 05/32/84 01:20:02>
 RE: MY USUAL TIRADE
 Read command :

Joel, stop and think of what you have just said about new territory. That is not what we are all about, (try explaining a young blonde to your wife as new territory). We are all about giving each other mutual support (for some it is more mutual than for others) in our quest to make sense out of these infernal machines we all own. As for Columbus, it he had not goofed (he did you know) we would all be Vikings or Indians or something else. Columbus did not discover America - rather an island in the Caribbean. He was not looking for new lands but was trying to get to India.

The one thing that gets me is why the sudden desire to abandon Newdos80 because there will be no updates of the Dos. It still works (at least my copy does), it is still the best of the Dos's for the TRS80 (in my not so humble opinion).

I do use CP/M quite a bit but it is a poor Dos (about as bad as the original TRSDOS) - I use it because it makes me money NOT because I like it.

BASIC is just what it says it is 'BASIC', the use of basic for a large program is like using a teaspoon to

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dig a swimming pool - you can do it but it is not recommended.

'C' is a language that I will learn if it kills me (it probably will too) but it is not a good applications language - it is a tool for writing utilities etc. PASCAL is similar to 'C' and is best used in the same way. Much has been written about the structured code that is forced by the use of 'C' and PASCAL and how easy it is to read and modify - to quote Fratus: horsepucky! A bad programmer will always write bad code and woe to he who attempts to understand it. If we really want transportability of code, then lets look at COBOL - it is an english like language, if written properly, it is easily understood and is in most cases easily transported from machine to machine. I have run programs written on a model 11 on the NCK criterion at work (big machine) and vice versa. The biggest complaint about Cobol is that it is verbose but that is easily handled with a preprocessor to expand shorthand code into full statements. Personally I prefer assembly language to all other languages but I am the resident computer bigot and don't count.

Whatever the club decides, I will learn so that I can answer the questions that will be asked so I care not in which direction we go (as long as I can run the Dos on my Model 1).

Glenn

<Message from SAMBROWN at SBUG-80 05/32/84 19:33:28>
RE: FOR SALE
Read command :

FOR SALE
MODEL 1 INTERFACE , GOOD CONDITION , 32K + CONTROLLER
\$300.00 GUARANTEED USABLE.
CALL 3/9-2774 OR MODEM 3/4-3974 (BITE BANDITS BBS)
IN CARE OF SISOP.
P.S. IT HAS 150 NANOSECOND RAM CHIPS (NEW)

Read command :

<Message from FRATUS at SBUG-80 05/33/84 02:01:58>
RE: C FOR NEWDOS80 MODEL111, TRY THIS
Read command :

FOR ANY WHO ARE AWAITING A LIBRARY FILE FOR
NEWDOS80 MODEL 111S, TRY DOWNLOADING AND USING
THE FILE 'NEW80111/REL' WHICH I UPLOADED IN
PLACE OF 'NEW80' IN THE L80 COMMAND LINE.
LET ME KNOW HOW IT WORKS! PEIE FRATUS

Read command :

<Message from FRATUS at SBUG-80 05/33/84 03:01:37>
RE: MODEL 4 SOFTWARE IN MODEL 4 MODE

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Read command :

LIST THE FILE MODEL4SW/ART ON SBUG FOR A LIST I COLLECT ON MODEL 4 SOFTWARE. I CERTAINLY DON'T FEEL LIKE I'M NOT IN THE 'MAINSTREAM' BECAUSE I'M NOT RUNNING CP/M! THERE IS MORE THAN ENOUGH MODEL 4 SOFTWARE ALREADY. AND IF YOUR APPLICATION IS TOO ESOTERIC FOR A SOFTWARE HOUSE TO SUPPLY, THERE A 2 (TWO!!!!) C COMPILERS - ONE OF WHICH IS THE ONE I WAS TOLD WAS THE BEST BY ONE OF OUR GROUP LEADERS.

FUTURE PASCAL PROGRAMMERS BEWARE: "COBOL IS TOO VERBOSE." YES, AND WAIT UNTIL YOU HAVE TO WRITE THREE PAGES OF CODE TO SET UP YOUR VARIABLES: 1 EACH FOR TYPES, VARIABLES AND CONSTANTS, AND INITIALIZING. THAT IS RIDICULOUS. REMEMBER, PASCAL WAS DESIGNED AS A TRAINING LANGUAGE TO TEACH STUDENT STRUCTURED PROGRAMMING PRACTICES. IT WAS NEVER DESIGNED AS, AND ISN'T AN APPLICATION LANGUAGE. PETE FRATUS

Read command :

<Message from VIGO at SBUG-80 05/33/84 11:06:19>
RE: C FOR MOD III - FRATUS'S FIX
Read command :

Pete, what did you do to NEW80 to fix the HIMEM in the final /CMD file? It works without a ZAP at the end!! Sure would like to see what NEW80III/MAC looks like. BUT - there is still one small problem. It did not correct the command line address (should be 4225H for the Model III but is still 4318H). Any programs that use the command line to pass parameters to the program still need to be ZAPPED after the final /CMD file is ready. I had changed the HIMEM address in NEW80/MAC and reassembled to get a new NEW80/REL, but that did not fix the HIMEM problem completely for me. What did you do, Pete? Thanks for the help!!

Vigo Smith

Read command :

<Message from HERBAUGH at SBUG-80 05/33/84 12:35:26>
RE: LEADING EDGE???
Read command :

Some of you may have purchased TANDY equipment and joined SBUG to be on the leading edge of hacking but I sure did not. I spent years writing utilities in 2650 machine code because there were none and there was no basic compiler for the 2650 at the time. I moved to TANDY because it has the largest support group I could find. I got a model 4 because it is a turnkey system and will support CP/M, which

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is STABLE and often FREE. I want to learn "C" but not till the talk of zaps and patches dies down. I use an IBM PC at work and, compared to DOSPLUS, MS-DOS stinks to high heaven! It is a very unfriendly os (aa, I am told, is CP/M).

Perhaps we should examine our motives for a discussion of what the club should support and form factions that will support our views without detracting from the other factions. I am not opposed to leading edge people but I am more interested in clean, useful software for myself.

Mike <HERBACH>

Read command :

<Message from VIGO at SBUG-80 05/33/84 16:11:59>
RE: SIMPLE "C" PROGRAM UPLOADED

Read command :

I have uploaded CPROG/TAT:1 on drive #1. It is just an example of what a rank amateur can do with "C". It may be used as an article for DYNAMIC MEMORIES if the editor so desires.

Have fun with "C".

Vigo Smith

Read command :

<Message from FRATUS at SBUG-80 06/03/84 01:10:52>
RE: C COMPILER LIBRARY - NEW&OI11

Read command :

I WILL WORK THAT PROBLEM OUT TONIGHT (HOPEFULLY).
BY THE WAY, TONIGHT MEANS JUNE 2ND.

PETE

Read command :

<Message from IANWEBB at SBUG-80 06/03/84 08:02:51>
RE: Model 4

Read command :

I find that the new Model 4 machines all have green screens and the arrow keys are relocated to the right of the keyboard in a cluster.
The "SALE" price for the Model 4 is apparently the new standard price and it will not return to its previous price.

The new management at the San Jose Computer Center - particularly John, the manager, seem to be reasonable people. Maybe Tandy finally got the message!!!!

I am told that there will be NO service for machines in the San Jose Computer Center. ALL servicing for the Bay Area will be done in Hayward and there will be pick up and delivery by truck daily from the computer centers.

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Read command :

<Message from IANWEBB at SBUG-80 06/03/84 08:07:29>
RE: More wars???
Read command :

How bout: Das Month mit Das Dos Wars?

Read command :

<Message from ROGERAND at SBUG-80 06/03/84 09:37:25>
RE: "DOS WARS"
Read command :

THANKS FOR THE NAME, IAN.
SORRY!, EDITOR, I HAVE TO AGREE WITH FRATUS.
PROGRAMS FROM RADIO SHACK ARE JUST AS VALID AS
PROGRAMS FROM POODUNK U.. A PROGRAM BY ANY OTHER NAME
IS A PROGRAM AND IF IT WORKS IT IS VALID.
I WOULD LIKE TO SEE THE "FRATUS LISTS" IN THE NEWS
LETTER.

Read command :

<Message from IANWEBB at SBUG-80 06/03/84 13:30:41>
RE: TWO CP/M PROGRAMS ON SYSTEM
Read command :

I have put two CP/M programs on the board. Try them
out if you don't already have them, you should!

RECOV.COM/CPM ———> RECOVER.COM
SWEEP.COM/CPM ———> SWEEP.COM

They are both in the index. Sorry, but I don't have
a file of the instructions for SWEEP, but it is fairly
self-explanatory.

Use MODEM7 or equivalent and be in CP/M when you
DFT them so you will have them in proper CP/M disk
format for your system.
(XMODEM is SAME as DFT on this system.)

Read command :

<Message from CORWINN at SBUG-80 06/03/84 14:54:29>
RE: Help me with DFT
Read command :

I attempted to receive a file from the BB using DFT.
The file name is CPRUG/1XT. This text file transferred
to my system minus any carriage returns or line feeds!
What am I doing wrong?

Read command :

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<Message from SYSOP at SBUG-80 06/03/84 17:46:54>
RE: Vigo's missing <cr>s
Read command :

The reason there are no <return>s on Vigo's article is because the file is a Scripsit file and should be taken apart (remove program as separate file) and used accordingly. Look at the program from Scripsit and you will see that it is all there...

Rob... thanx Vigo!!

Read command :

<Message from FRATUS at SBUG-80 06/03/84 22:13:44>
RE: C LIBRARY FOR NEWDOS ON III IS READY!
Read command :

I FINALLY FINISHED THE NEWDOS ON III SUPPORT LIBRARY FOR THE C COMPILER. IT WAS UPLOADED AT 10:35 PM ON SUNDAY JUNE 3RD. BOTH THE HIMEM (4411) AND DOSCMD (4225) PROBLEMS ARE FIXED. USE THE SAME COMMAND LINE AS I LEFT IN THE INDEX:

L80 SOURCE,NEW80111-S,CLIB-S,OBJECT-N-E:COMAIN
WHEN I GET THE TRSDOS VERSION WORKING, C/CMD WILL HAVE A VERSION TO GO ALONG WITH IT.

I THINK I HAVE THE METHOD OF CHANGE DOWN TO A SMALL FILE TO EDIT FOR CHANGES, BUT IT WAS A REAL MESS!
PETE <FRATUS>

Read command :

<Message from PRATUS at SBUG-80 06/03/84 22:26:01>
RE: THEIR PARTY SOFTWARE AT STRAWFLOWER ELECTRONICS
Read command :

AFTER THE TALK WE GOT FROM THE OWNER OF "AVS" ABOUT THE SOFTWARE BUSINESS, I HAD CONCEDED THAT WE MUST GET OUR SOFTWARE THRU MAIL ORDER AND AT OUR OWN RISK.

SATURDAY, I WENT TO STRAWFLOWER ELECTRONICS IN HALF MOON BAY (ABOUT A 45 MINUTE DRIVE). I SPENT TWO HOURS LOOKING AT SOFTWARE AND MAKING A LIST TO PASS ON IF ANYONE WOULD LIKE TO SEE WHAT THEY HAVE. THEY *DO* HAVE THE NEW PRO-XXX SOFTWARE FROM MISO SYS! I BOUGHT THREE OF THEM.
PETE FRATUS

Read command :

<Message from VIGO at SBUG-80 06/04/84 16:50:17>
RE: COMPLETE "C" PACKAGE NOW WORKS ON MOD III
Read command :

You're a good man, Pete

SOUTH BAY TRS-80 USERS GROUP

Fratus, "C" now works perfectly on the Mod III. No more ZAPS or problems. Still would like to see the new NEWS0III/MAC. Thanks for all your efforts, Pete.

Vigo Smith

Read command :

<Message from IANWEBB at SBUG-80 06/04/84 18:43:37>
RE: FILENAME STANDARDS
Read command :

Tom's suggestion on standards is a good one. Don't get caught not thinking as I did and send a file with a .OBJ or .COM, etc. That will put a PASSWORD on the file and then problems will abound. I suggest using the technique I have already done on the two CP/M files I put on the board. Abbreviate the name, leaving the last three letters for the appropriate type (.COM, etc.) and they use the NEWDOS extension to indicate CP/M by /CPM. For example, SWEEP.COM becomes SWEEP.COM/CPM. Could do the same for MSDOS. An example might be: PROGMCOM/MSD. In any event, it would be wise for us all to read Tom's comments. I think he sums up things well.

Read command :

<Message from FRATUS at SBUG-80 06/05/84 00:32:26>
RE: G COMPILER ON TRSDOS 1.3
Read command :

GREAT NEWS! THE G COMPILER LIBRARY IS NOW READY FOR TRSDOS.

FOR THOSE TRUE BLUE TRSDOS USERS, THE COPY OF C ON THE DISK YOU GOT AT THE MEETING NEEDS A FEW ZAPS. WHERE EVER YOU

FIND A 4318, CHANGE IT TO 4225. CHANGE A 4049 TO 4411. DO

THE SAME TO M80 AND L80 ALONG WITH AN L80 CHANGE OF 4473 TO

444B. WHEN YOU LOAD WITH L80, USE TWO LIBRARIES:

L80 RELFILE,NEWS0III-S,CLIB-S,CMDFILE-N-E:CCMAIN
SURPRISED? AFTER EXTENSIVE INVESTIGATION, I FOUND THAT
NO

CHANGES WERE NEEDED IN NEWS0III/REL TO MAKE IT WORK ON THE
MODEL III WITH TRSDOS 1.3. NEWS0III/REL IS ON SBUG DISK 2.
HAPPY G'ING, PETE FRATUS

Read command :

South Bay TRS-80 Users Group
P.O. Box 60116
Sunnyvale, Ca 94088

FIRST CLASS MAIL